Day and Night ANVIS Head-Up Display

(Day & ANVIS/HUD)

ELBIT SYSTEMS LTD.
P.O.Box 539
Advanced Technology Center
Haifa 31053, Israel
Tel: 972-4-8315315
Fax: 972-4-8550002
Web site: http://www.elbit.co.il

Elbit Systems' AN/AVS-7 is a standard helicopter aviator, head out, day and night helmet mounted display system. The ANVIS/HUD is an advanced, proven electro-optic system combining the standard ANVIS goggles image with aircraft flight instrumentation and computer graphics during night operation.
The Day HUD is an add-on module to the ANVIS mounting allowing projected imagery of flight information outside the visor during daytime.
The system can be installed on any type of helicopter Bus or un-bused interface, Western or Eastern, and has the capability to interface and support various A/C systems such as Flight Data Recorder (FDR), Global Positioning System (GPS) and Electro-Optic Payload (EOP) via an additional cueing card.
The system supports two pilots independently with eight selectable display screens. The system operates through pilot's Collective and through CCU, MFD or CDU.

NVG/HUD Main Features

- Symbology FOV 32° over 40° night vision
- No degradation to the ANVIS image
- Contrast ratio: 2:1 Min (at 0.03 FC)
- Resolution better than 512 x 512
- Position stability less than 3%
- Distortion less than 3%
- Lightweight - less than 110 gr
- Compatibility to any ANVIS (Gen II, Gen III and OMNIBUS)
- Easily attached to the right or left objective on any standard ANVIS
- 8 selectable modes of operation
- Proven high field reliability (MTBF>3000 H)
- Can be used with NBC mask or eyeglasses
- Quick disconnect for safe egress

Day/HUD Main Features

- See through symbology FOV 25° outside the clear or dark visor
- Contrast ratio: 1.4:1 Min (at 10,000 FC)
- High brightness: 500 FL
- Resolution better than 512 x 512
- See-through transmission - 36%
- Position stability less than 3%
- Exit pupil >12 mm
- Eye relief 50 mm can use NBC mask or eyeglasses
- Distortion less than 2%
- Lightweight: less than 200 gr
- Easily attached to any standard ANVIS-mounted helmet
- 8 selectable modes of operation
- High reliability - MTBF over 3000 H
- Quick disconnect for safe egress